

APPENDIX E

Criteria Air Pollutant Descriptions and Air Quality Modeling Results

CRITERIA AIR POLLUTANTS DESCRIPTION

Concentrations of the following air pollutants: ozone, respirable and fine particulate matter (PM₁₀ and PM_{2.5}), carbon monoxide (CO), nitrogen dioxide (NO₂), sulfur dioxide (SO₂), and lead are used as indicators of ambient air quality conditions. Because these are the most prevalent air pollutants known to be deleterious to human health and extensive health-effects criteria documents are available, they are commonly referred to as “criteria air pollutants.”

A brief description of each criteria air pollutant including source types, health effects, and future trends is provided below.

OZONE

Ozone is a photochemical oxidant, a substance whose oxygen combines chemically with another substance in the presence of sunlight, and the primary component of smog. Ozone is not directly emitted into the air, but is formed through complex chemical reactions between precursor emissions of ROG and NO_x in the presence of sunlight. ROG are volatile organic compounds that are photochemically reactive. ROG emissions result primarily from incomplete combustion and the evaporation of chemical solvents and fuels. NO_x are a group of gaseous compounds of nitrogen and oxygen that results from the combustion of fuels.

Ozone located in the upper atmosphere (stratosphere) acts in a beneficial manner by shielding the earth from harmful ultraviolet radiation that is emitted by the sun. However, ozone located in the lower atmosphere (troposphere) is a major health and environmental concern. Meteorology and terrain play a major role in ozone formation. Generally, low wind speeds or stagnant air coupled with warm temperatures and clear skies provide the optimum conditions for formation. As a result, summer is generally the peak ozone season. Because of the reaction time involved, peak ozone concentrations often occur far downwind of the precursor emissions. Therefore, ozone is a regional pollutant that often affects large areas. In general, ozone concentrations over or near urban and rural areas reflect an interplay of emissions of ozone precursors, transport, meteorology, and atmospheric chemistry (Godish 1991).

The adverse health effects associated with exposure to ozone pertain primarily to the respiratory system. Scientific evidence indicates that ambient levels of ozone affect not only sensitive receptors, such as asthmatics and children, but healthy adults as well. Exposure to ambient levels of ozone ranging from 0.10 to 0.40 parts per million (ppm) for 1 to 2 hours has been found to significantly alter lung functions by increasing respiratory rates and pulmonary resistance, decreasing tidal volumes, and impairing respiratory mechanics. Ambient levels of ozone above 0.12 ppm are linked to symptomatic responses that include such symptoms as throat dryness, chest tightness, headache, and nausea. In addition to the above adverse health effects, evidence also exists relating ozone exposure to an increase in the permeability of respiratory epithelia; such increased permeability leads to an

increase in responsiveness of the respiratory system to challenges, and interference or inhibition of the immune system's ability to defend against infection (Godish 1991).

PARTICULATE MATTER

Respirable particulate matter with an aerodynamic diameter of 10 micrometers or less is referred to as PM_{10} . PM_{10} consists of particulate matter emitted directly into the air, such as fugitive dust, soot, and smoke from mobile and stationary sources, construction operations, fires and natural windblown dust, and particulate matter formed in the atmosphere by condensation and/or transformation of SO_2 and ROG (U.S. Environmental Protection Agency [EPA] 2006). Fine particulate matter ($PM_{2.5}$) includes a subgroup of smaller particles that have an aerodynamic diameter of 2.5 micrometers or less (California Air Resources Board 2006a).

The adverse health effects associated with PM_{10} depend on the specific composition of the particulate matter. For example, health effects may be associated with metals, polycyclic aromatic hydrocarbons (PAH), and other toxic substances adsorbed onto fine particulate matter, which is referred to as the piggybacking effect, or with fine dust particles of silica or asbestos. Generally, adverse health effects associated with PM_{10} may result from both short-term and long-term exposure to elevated concentrations and may include breathing and respiratory symptoms, aggravation of existing respiratory and cardiovascular diseases, alterations to the immune system, carcinogenesis, and premature death (EPA 2006). $PM_{2.5}$ poses an increased health risk because the particles can deposit deep in the lungs and may contain substances that are particularly harmful to human health.

CARBON MONOXIDE

Carbon monoxide (CO) is a colorless, odorless, and poisonous gas produced by incomplete burning of carbon in fuels, primarily from mobile (transportation) sources. Seventy-seven percent of the nationwide CO emissions are from mobile sources. The other 23% consists of CO emissions from wood-burning stoves, incinerators, and industrial sources.

CO enters the bloodstream through the lungs by combining with hemoglobin, which normally supplies oxygen to the cells. However, CO combines with hemoglobin much more readily than oxygen does, resulting in a drastic reduction in the amount of oxygen available to the cells. Adverse health effects associated with exposure to CO concentrations include such symptoms as dizziness, headaches, and fatigue. CO exposure is especially harmful to individuals who suffer from cardiovascular and respiratory diseases (EPA 2006).

The highest concentrations are generally associated with cold stagnant weather conditions that occur during the winter. In contrast to ozone, which tends to be a regional pollutant, CO problems tend to be localized.

NITROGEN DIOXIDE

Nitrogen dioxide (NO₂) is a brownish, highly reactive gas that is present in all urban environments. The major human-made sources of NO₂ are combustion devices, such as boilers, gas turbines, and mobile and stationary reciprocating internal combustion engines. Combustion devices emit primarily nitric oxide (NO), which reacts through oxidation in the atmosphere to form NO₂ (EPA 2006). The combined emissions of NO and NO₂ are referred to as NO_x, which are reported as equivalent NO₂. Because NO₂ is formed and depleted by reactions associated with photochemical smog (ozone), the NO₂ concentration in a particular geographical area may not be representative of the local NO_x emission sources.

Inhalation is the most common route of exposure to NO₂. Because NO₂ has relatively low solubility in water, the principal site of toxicity is in the lower respiratory tract. The severity of the adverse health effects depends primarily on the concentration inhaled rather than the duration of exposure. An individual may experience a variety of acute symptoms, including coughing, difficulty with breathing, vomiting, headache, and eye irritation during or shortly after exposure. After a period of approximately 4 to 12 hours, an exposed individual may experience chemical pneumonitis or pulmonary edema with breathing abnormalities, cough, cyanosis, chest pain, and rapid heartbeat. Severe, symptomatic NO₂ intoxication after acute exposure has been linked on occasion with prolonged respiratory impairment with such symptoms as chronic bronchitis and decreased lung functions.

SULFUR DIOXIDE

Sulfur dioxide (SO₂) is produced by such stationary sources as coal and oil combustion, steel mills, refineries, pulp and paper mills. The major adverse health effects associated with SO₂ exposure pertain to the upper respiratory tract. SO₂ is a respiratory irritant with constriction of the bronchioles occurring with inhalation of SO₂ at 5 ppm or more. On contact with the moist mucous membranes, SO₂ produces sulfurous acid, which is a direct irritant. Concentration rather than duration of the exposure is an important determinant of respiratory effects. Exposure to high SO₂ concentrations may result in edema of the lungs or glottis and respiratory paralysis.

LEAD

Lead is a metal found naturally in the environment as well as in manufactured products. The major sources of lead emissions have historically been mobile and industrial sources. As a result of the phase-out of leaded gasoline, as discussed in detail below, metal processing is currently the primary source of lead emissions. The highest levels of lead in air are generally found near lead smelters. Other stationary sources are waste incinerators, utilities, and lead-acid battery manufacturers.

Twenty years ago, mobile sources were the main contributor to ambient lead concentrations in the air. In the early 1970s, the EPA (EPA) set national regulations to gradually reduce the lead content in gasoline. In 1975, unleaded

gasoline was introduced for motor vehicles equipped with catalytic converters. The EPA banned the use of leaded gasoline in highway vehicles in December 1995 (EPA 2006).

As a result of the EPA's regulatory efforts to remove lead from gasoline, emissions of lead from the transportation sector have declined dramatically (95% between 1980 and 1999), and levels of lead in the air decreased by 94% between 1980 and 1999. Transportation sources, primarily airplanes, now contribute only 13% of lead emissions. A recent National Health and Nutrition Examination Survey reported a 78% decrease in the levels of lead in people's blood between 1976 and 1991. This dramatic decline can be attributed to the move from leaded to unleaded (EPA 2006).

All areas of the state are currently designated as attainment for the state lead standard (the EPA does not designate areas for the national lead standard). Although the ambient lead standards are no longer violated, lead emissions from stationary sources still pose "hot spot" problems in some areas. As a result, the Air Resources Board (ARB) identified lead as a toxic air contaminant.

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
8.7\Projects2k2\Tahoe_Vista_Preparation_Operational.urb
Project Name: Tahoe Vista-Initial Site Prep. & Operational
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Summer)

CONSTRUCTION EMISSION ESTIMATES

					PM10	PM10
PM10						
*** 2007 ***	ROG	NOx	CO	S02	TOTAL	EXHAUST
DUST						
TOTALS (lbs/day, unmitigated)	12.97	98.60	96.14	0.09	20.40	4.39
16.01						

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	S02	PM10
TOTALS (lbs/day, unmitigated)	2.88	0.42	0.84	0.00	0.00

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	S02	PM10
TOTALS (lbs/day, unmitigated)	4.85	9.10	64.10	0.05	8.46

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	S02	PM10
TOTALS (lbs/day, unmitigated)	7.73	9.52	64.94	0.05	8.46

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SUMMARY REPORT
(Pounds/Day - Winter)

CONSTRUCTION EMISSION ESTIMATES

					PM10	PM10
PM10						
*** 2007 ***	ROG	NOx	CO	S02	TOTAL	EXHAUST
DUST						
TOTALS (lbs/day, unmitigated)	12.97	98.60	96.14	0.09	20.40	4.39
16.01						

AREA SOURCE EMISSION ESTIMATES

TahoeVista_InitialSitePrep_OperationalA.txt

	ROG	NOx	CO	S02	PM10
TOTALS (lbs/day, unmitigated)	2.80	0.72	0.31	0.00	0.03
OPERATIONAL (VEHICLE) EMISSION ESTIMATES					
	ROG	NOx	CO	S02	PM10
TOTALS (lbs/day, unmitigated)	6.19	10.89	75.66	0.05	8.46
SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES					
	ROG	NOx	CO	S02	PM10
TOTALS (lbs/day, unmitigated)	9.00	11.60	75.97	0.05	8.48

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On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Tons/Year)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	S02	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2007 *** TOTALS (tpy, unmitigated)	0.45	3.79	3.23	0.00	0.85	0.15	0.70

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	S02	PM10
TOTALS (tpy, unmitigated)	0.51	0.08	0.09	0.00	0.00

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	S02	PM10
TOTALS (tpy, unmitigated)	0.97	1.77	12.40	0.01	1.54

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	S02	PM10
TOTALS (tpy, unmitigated)	1.48	1.85	12.49	0.01	1.54

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Project Name: Tahoe Vista-Initial Site Prep. & Operational
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Winter)

TahoeVista_InitialSitePrep_OperationalA.txt

Construction Start Month and Year: May, 2007
 Construction Duration: 4
 Total Land Use Area to be Developed: 6.25 acres
 Maximum Acreage Disturbed Per Day: 1.6 acres
 Single Family Units: 0 Multi-Family Units: 55
 Retail/Office/Institutional/Industrial Square Footage: 0

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2007***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	15.12	-	15.12
Off-Road Diesel	1.77	10.54	15.08	-	0.34	0.34	0.00
On-Road Diesel	2.65	49.59	9.74	0.09	1.33	1.12	0.21
Worker Trips	0.02	0.04	0.42	0.00	0.00	0.00	0.00
Maximum lbs/day	4.44	60.17	25.24	0.09	16.79	1.46	15.33
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	16.00	-	16.00
Off-Road Diesel	12.92	98.58	95.61	-	4.39	4.39	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.05	0.02	0.53	0.00	0.01	0.00	0.01
Maximum lbs/day	12.97	98.60	96.14	0.00	20.40	4.39	16.01
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Max lbs/day all phases	12.97	98.60	96.14	0.09	20.40	4.39	16.01

Phase 3 - Building Construction Assumptions: Phase Turned OFF

Start Month/Year for Phase 1: May '07
 Phase 1 Duration: 1.3 months
 Building Volume Total (cubic feet): 36000
 Building Volume Daily (cubic feet): 36000
 On-Road Truck Travel (VMT): 2001
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Rubber Tired Loaders	165	0.465	10.5

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jun '07
 Phase 2 Duration: 2.7 months
 On-Road Truck Travel (VMT): 0
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
3	Rubber Tired Dozers	352	0.590	8.0
3	Tractor/Loaders/Backhoes	79	0.465	8.0

TahoeVista_InitialSitePrep_OperationalA.txt

Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.03	0.41	0.18	0	0.00
Hearth	0.02	0.30	0.13	0.00	0.02
Landscaping - No winter emissions					
Consumer Prdcts	2.69	-	-	-	-
Architectural Coatings	0.06	-	-	-	-
TOTALS(lbs/day, unmitigated)	2.80	0.72	0.31	0.00	0.03

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UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
TAU/Affordable/Employee	6.19	10.89	75.66	0.05	8.46
TOTAL EMISSIONS (lbs/day)	6.19	10.89	75.66	0.05	8.46

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2009 Temperature (F): 40 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
TAU/Affordable/Employee	6.25	9.49 trips/dwelling unit	55.00	522.01
Sum of Total Trips				522.01
Total Vehicle Miles Traveled				5,577.15

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent	Type	Non-Catalyst	Catalyst	Diesel
Light Auto	54.90		1.30	98.40	0.30
Light Truck < 3,750 lbs	15.10		2.60	95.40	2.00
Light Truck 3,751- 5,750	16.10		1.20	98.10	0.70
Med Truck 5,751- 8,500	7.30		1.40	95.90	2.70
Lite-Heavy 8,501- 10,000	1.10		0.00	81.80	18.20
Lite-Heavy 10,001- 14,000	0.30		0.00	66.70	33.30
Med-Heavy 14,001- 33,000	1.00		0.00	20.00	80.00
Heavy-Heavy 33,001- 60,000	0.90		0.00	11.10	88.90
Line Haul > 60,000 lbs	0.00		0.00	0.00	100.00
Urban Bus	0.20		0.00	50.00	50.00
Motorcycle	1.60		75.00	25.00	0.00
School Bus	0.10		0.00	0.00	100.00
Motor Home	1.40		7.10	85.70	7.20

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	10.8	7.3	7.5	9.5	7.4	7.4
Rural Trip Length (miles)	16.8	7.1	7.9	14.7	6.6	6.6
Trip Speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	32.9	18.0	49.1			

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Changes made to the default values for Land Use Trip Percentages

The Trip Rate and/or Acreage values for Apartments low rise
have changed from the defaults 6.9/3.44 to 9.491/6.25

Changes made to the default values for Construction

Changes made to the default values for Area

The wood stove percentage changed from 35 to 0.
The wood fireplace percentage changed from 10 to 0.
The natural gas fireplace percentage changed from 55 to 100.
The landscape year changed from 2005 to 2009.
The residential Arch. Coatings ROG emission factor changed from 0.0185 to 0.0013.
The nonresidential Arch. Coatings ROG emission factor changed from 0.0185 to 0.0013.

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2009.

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Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT (Pounds/Day - Summer)

Construction Start Month and Year: May, 2007
Construction Duration: 4
Total Land Use Area to be Developed: 6.25 acres
Maximum Acreage Disturbed Per Day: 1.6 acres
Single Family Units: 0 Multi-Family Units: 55
Retail/Office/Institutional/Industrial Square Footage: 0

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2007***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	15.12	-	15.12
Off-Road Diesel	1.77	10.54	15.08	-	0.34	0.34	0.00
On-Road Diesel	2.65	49.59	9.74	0.09	1.33	1.12	0.21
Worker Trips	0.02	0.04	0.42	0.00	0.00	0.00	0.00
Maximum lbs/day	4.44	60.17	25.24	0.09	16.79	1.46	15.33
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	16.00	-	16.00
Off-Road Diesel	12.92	98.58	95.61	-	4.39	4.39	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.05	0.02	0.53	0.00	0.01	0.00	0.01
Maximum lbs/day	12.97	98.60	96.14	0.00	20.40	4.39	16.01

TahoeVista_InitialSitePrep_OperationalA.txt

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Max lbs/day all phases	12.97	98.60	96.14	0.09	20.40	4.39	16.01
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Phase 3 - Building Construction Assumptions: Phase Turned OFF

Start Month/Year for Phase 1: May '07

Phase 1 Duration: 1.3 months

Building Volume Total (cubic feet): 36000

Building Volume Daily (cubic feet): 36000

On-Road Truck Travel (VMT): 2001

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Rubber Tired Loaders	165	0.465	10.5

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jun '07

Phase 2 Duration: 2.7 months

On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
3	Rubber Tired Dozers	352	0.590	8.0
3	Tractor/Loaders/Backhoes	79	0.465	8.0

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AREA SOURCE EMISSION ESTIMATES (Summer Pounds per Day, Unmitigated)

Source	ROG	NOx	CO	S02	PM10
Natural Gas	0.03	0.41	0.18	0	0.00
Hearth - No summer emissions					
Landscaping	0.10	0.00	0.66	0.00	0.00
Consumer Prdcts	2.69	-	-	-	-
Architectural Coatings	0.06	-	-	-	-
TOTALS(lbs/day, unmitigated)	2.88	0.42	0.84	0.00	0.00

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UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	S02	PM10
TAU/Affordable/Employee	4.85	9.10	64.10	0.05	8.46
TOTAL EMISSIONS (lbs/day)	4.85	9.10	64.10	0.05	8.46

Does not include correction for passby trips.

Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2009 Temperature (F): 60 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
TAU/Affordable/Employee	6.25	9.49 trips/dwelling unit	55.00	522.01
Sum of Total Trips				522.01
Total Vehicle Miles Traveled				5,577.15

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent	Type	Non-Catalyst	Catalyst	Diesel
Light Auto	54.90		1.30	98.40	0.30
Light Truck < 3,750 lbs	15.10		2.60	95.40	2.00
Light Truck 3,751- 5,750	16.10		1.20	98.10	0.70
Med Truck 5,751- 8,500	7.30		1.40	95.90	2.70
Lite-Heavy 8,501-10,000	1.10		0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.30		0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00		0.00	20.00	80.00
Heavy-Heavy 33,001-60,000	0.90		0.00	11.10	88.90
Line Haul > 60,000 lbs	0.00		0.00	0.00	100.00
Urban Bus	0.20		0.00	50.00	50.00
Motorcycle	1.60		75.00	25.00	0.00
School Bus	0.10		0.00	0.00	100.00
Motor Home	1.40		7.10	85.70	7.20

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	10.8	7.3	7.5	9.5	7.4	7.4
Rural Trip Length (miles)	16.8	7.1	7.9	14.7	6.6	6.6
Trip Speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	32.9	18.0	49.1			

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
8.7\Projects2k2\Tahoe_Vista_Preparation_Operational.urb
Project Name: Tahoe Vista-Initial Site Prep. & Operational
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Tons/Year)

Construction Start Month and Year: May, 2007
Construction Duration: 4
Total Land Use Area to be Developed: 6.25 acres
Maximum Acreage Disturbed Per Day: 1.6 acres
Single Family Units: 0 Multi-Family Units: 55
Retail/Office/Institutional/Industrial Square Footage: 0

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (tons/year)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2007***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.22	-	0.22
Off-Road Diesel	0.03	0.15	0.22	-	0.00	0.00	0.00
On-Road Diesel	0.04	0.71	0.14	0.00	0.02	0.02	0.00
Worker Trips	0.00	0.00	0.01	0.00	0.00	0.00	0.00
Total tons/year	0.07	0.86	0.37	0.00	0.24	0.02	0.22
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.48	-	0.48
Off-Road Diesel	0.38	2.93	2.84	-	0.13	0.13	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.02	0.00	0.00	0.00	0.00
Total tons/year	0.38	2.93	2.86	0.00	0.61	0.13	0.48
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total all phases tons/yr	0.45	3.79	3.23	0.00	0.85	0.15	0.70

Phase 3 - Building Construction Assumptions: Phase Turned OFF

Start Month/Year for Phase 1: May '07
Phase 1 Duration: 1.3 months
Building Volume Total (cubic feet): 36000
Building Volume Daily (cubic feet): 36000
On-Road Truck Travel (VMT): 2001

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Rubber Tired Loaders	165	0.465	10.5

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jun '07

Phase 2 Duration: 2.7 months

On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
3	Rubber Tired Dozers	352	0.590	8.0
3	Tractor/Loaders/Backhoes	79	0.465	8.0

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AREA SOURCE EMISSION ESTIMATES (Tons per Year, Unmitigated)

Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.01	0.08	0.03	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00
Landscaping	0.01	0.00	0.06	0.00	0.00
Consumer Prdcts	0.49	-	-	-	-
Architectural Coatings	0.01	-	-	-	-
TOTALS (tpy, unmitigated)	0.51	0.08	0.09	0.00	0.00

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UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
TAU/Affordable/Employee	0.97	1.77	12.40	0.01	1.54
TOTAL EMISSIONS (tons/yr)	0.97	1.77	12.40	0.01	1.54

Does not include correction for passby trips.

Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2009

Season: Annual

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
TAU/Affordable/Employee	6.25	9.49 trips/dwelling unit	55.00	522.01
Sum of Total Trips				522.01
Total Vehicle Miles Traveled				5,577.15

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	54.90	1.30	98.40	0.30
Light Truck < 3,750 lbs	15.10	2.60	95.40	2.00
Light Truck 3,751- 5,750	16.10	1.20	98.10	0.70
Med Truck 5,751- 8,500	7.30	1.40	95.90	2.70
Lite-Heavy 8,501- 10,000	1.10	0.00	81.80	18.20

TahoeVista_InitialSitePrep_OperationalA.txt

Lite-Heavy	10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy	14,001-33,000	1.00	0.00	20.00	80.00
Heavy-Heavy	33,001-60,000	0.90	0.00	11.10	88.90
Line Haul > 60,000 lbs		0.00	0.00	0.00	100.00
Urban Bus		0.20	0.00	50.00	50.00
Motorcycle		1.60	75.00	25.00	0.00
School Bus		0.10	0.00	0.00	100.00
Motor Home		1.40	7.10	85.70	7.20

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	10.8	7.3	7.5	9.5	7.4	7.4
Rural Trip Length (miles)	16.8	7.1	7.9	14.7	6.6	6.6
Trip Speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	32.9	18.0	49.1			

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Changes made to the default values for Land Use Trip Percentages

The Trip Rate and/or Acreage values for Apartments low rise have changed from the defaults 6.9/3.44 to 9.491/6.25

Changes made to the default values for Construction

Changes made to the default values for Area

The wood stove percentage changed from 35 to 0.
The wood fireplace percentage changed from 10 to 0.
The natural gas fireplace percentage changed from 55 to 100.
The landscape year changed from 2005 to 2009.
The residential Arch. Coatings ROG emission factor changed from 0.0185 to 0.0013.
The nonresidential Arch. Coatings ROG emission factor changed from 0.0185 to 0.0013.

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2009.

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
8.7\Projects2k2\Tahoe_Vista_Preparation_Operational_B.urb
Project Name: Tahoe Vista-Initial Site Prep. & Operational B
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Summer)

CONSTRUCTION EMISSION ESTIMATES

					PM10	PM10
PM10						
*** 2007 ***	ROG	NOx	CO	S02	TOTAL	EXHAUST
DUST						
TOTALS (lbs/day, unmitigated)	12.97	98.60	96.14	0.09	20.40	4.39
16.01						

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	S02	PM10
TOTALS (lbs/day, unmitigated)	2.58	0.37	0.82	0.00	0.00

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	S02	PM10
TOTALS (lbs/day, unmitigated)	4.29	8.04	56.61	0.04	7.47

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	S02	PM10
TOTALS (lbs/day, unmitigated)	6.86	8.41	57.43	0.04	7.47

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
8.7\Projects2k2\Tahoe_Vista_Preparation_Operational_B.urb
Project Name: Tahoe Vista-Initial Site Prep. & Operational B
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Winter)

CONSTRUCTION EMISSION ESTIMATES

					PM10	PM10
PM10						
*** 2007 ***	ROG	NOx	CO	S02	TOTAL	EXHAUST
DUST						
TOTALS (lbs/day, unmitigated)	12.97	98.60	96.14	0.09	20.40	4.39
16.01						

AREA SOURCE EMISSION ESTIMATES

TahoeVista_InitialSitePrep_OperationalB.txt

	ROG	NOx	CO	S02	PM10
TOTALS (lbs/day, unmitigated)	2.50	0.64	0.27	0.00	0.02
OPERATIONAL (VEHICLE) EMISSION ESTIMATES					
	ROG	NOx	CO	S02	PM10
TOTALS (lbs/day, unmitigated)	5.47	9.61	66.82	0.04	7.47
SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES					
	ROG	NOx	CO	S02	PM10
TOTALS (lbs/day, unmitigated)	7.97	10.25	67.09	0.04	7.49

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
8.7\Projects2k2\Tahoe_Vista_Preparation_Operational_B.urb
Project Name: Tahoe Vista-Initial Site Prep. & Operational B
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Tons/Year)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	S02	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2007 *** TOTALS (tpy, unmitigated)	0.45	3.79	3.23	0.00	0.85	0.15	0.70

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	S02	PM10
TOTALS (tpy, unmitigated)	0.46	0.07	0.09	0.00	0.00

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	S02	PM10
TOTALS (tpy, unmitigated)	0.85	1.56	10.95	0.01	1.36

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	S02	PM10
TOTALS (tpy, unmitigated)	1.31	1.63	11.04	0.01	1.36

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
8.7\Projects2k2\Tahoe_Vista_Preparation_Operational_B.urb
Project Name: Tahoe Vista-Initial Site Prep. & Operational B
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Winter)

Tahoe Vista_Initial Site Prep_Operational B. txt

Construction Start Month and Year: May, 2007
 Construction Duration: 4
 Total Land Use Area to be Developed: 6.25 acres
 Maximum Acreage Disturbed Per Day: 1.6 acres
 Single Family Units: 0 Multi-Family Units: 49
 Retail/Office/Institutional/Industrial Square Footage: 0

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2007***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	15.12	-	15.12
Off-Road Diesel	1.77	10.54	15.08	-	0.34	0.34	0.00
On-Road Diesel	2.65	49.59	9.74	0.09	1.33	1.12	0.21
Worker Trips	0.02	0.04	0.42	0.00	0.00	0.00	0.00
Maximum lbs/day	4.44	60.17	25.24	0.09	16.79	1.46	15.33
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	16.00	-	16.00
Off-Road Diesel	12.92	98.58	95.61	-	4.39	4.39	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.05	0.02	0.53	0.00	0.01	0.00	0.01
Maximum lbs/day	12.97	98.60	96.14	0.00	20.40	4.39	16.01
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Max lbs/day all phases	12.97	98.60	96.14	0.09	20.40	4.39	16.01

Phase 3 - Building Construction Assumptions: Phase Turned OFF

Start Month/Year for Phase 1: May '07
 Phase 1 Duration: 1.3 months
 Building Volume Total (cubic feet): 36000
 Building Volume Daily (cubic feet): 36000
 On-Road Truck Travel (VMT): 2001
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Rubber Tired Loaders	165	0.465	10.5

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jun '07
 Phase 2 Duration: 2.7 months
 On-Road Truck Travel (VMT): 0
 Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
3	Rubber Tired Dozers	352	0.590	8.0
3	Tractor/Loaders/Backhoes	79	0.465	8.0

TahoeVista_InitialSitePrep_OperationalB.txt

Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.03	0.37	0.16	0	0.00
Hearth	0.02	0.27	0.12	0.00	0.02
Landscaping - No winter emissions					
Consumer Prdcts	2.40	-	-	-	-
Architectural Coatings	0.06	-	-	-	-
TOTALS(lbs/day, unmitigated)	2.50	0.64	0.27	0.00	0.02

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UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
TAU/Affordable/Employee	5.47	9.61	66.82	0.04	7.47
TOTAL EMISSIONS (lbs/day)	5.47	9.61	66.82	0.04	7.47

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2009 Temperature (F): 40 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
TAU/Affordable/Employee	6.25	9.41 trips/dwelling unit	49.00	460.99
Sum of Total Trips				460.99
Total Vehicle Miles Traveled				4,925.28

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent	Type	Non-Catalyst	Catalyst	Diesel
Light Auto	54.90		1.30	98.40	0.30
Light Truck < 3,750 lbs	15.10		2.60	95.40	2.00
Light Truck 3,751- 5,750	16.10		1.20	98.10	0.70
Med Truck 5,751- 8,500	7.30		1.40	95.90	2.70
Lite-Heavy 8,501- 10,000	1.10		0.00	81.80	18.20
Lite-Heavy 10,001- 14,000	0.30		0.00	66.70	33.30
Med-Heavy 14,001- 33,000	1.00		0.00	20.00	80.00
Heavy-Heavy 33,001- 60,000	0.90		0.00	11.10	88.90
Line Haul > 60,000 lbs	0.00		0.00	0.00	100.00
Urban Bus	0.20		0.00	50.00	50.00
Motorcycle	1.60		75.00	25.00	0.00
School Bus	0.10		0.00	0.00	100.00
Motor Home	1.40		7.10	85.70	7.20

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	10.8	7.3	7.5	9.5	7.4	7.4
Rural Trip Length (miles)	16.8	7.1	7.9	14.7	6.6	6.6
Trip Speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	32.9	18.0	49.1			

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Changes made to the default values for Land Use Trip Percentages

The Trip Rate and/or Acreage values for Apartments low rise
have changed from the defaults 6.9/3.06 to 9.408/6.25

Changes made to the default values for Construction

Changes made to the default values for Area

The wood stove percentage changed from 35 to 0.
The wood fireplace percentage changed from 10 to 0.
The natural gas fireplace percentage changed from 55 to 100.
The landscape year changed from 2005 to 2009.
The residential Arch. Coatings ROG emission factor changed from 0.0185 to 0.0013.
The nonresidential Arch. Coatings ROG emission factor changed from 0.0185 to 0.0013.

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2009.

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
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Project Name: Tahoe Vista-Initial Site Prep. & Operational B
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT (Pounds/Day - Summer)

Construction Start Month and Year: May, 2007
Construction Duration: 4
Total Land Use Area to be Developed: 6.25 acres
Maximum Acreage Disturbed Per Day: 1.6 acres
Single Family Units: 0 Multi-Family Units: 49
Retail/Office/Institutional/Industrial Square Footage: 0

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2007***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	15.12	-	15.12
Off-Road Diesel	1.77	10.54	15.08	-	0.34	0.34	0.00
On-Road Diesel	2.65	49.59	9.74	0.09	1.33	1.12	0.21
Worker Trips	0.02	0.04	0.42	0.00	0.00	0.00	0.00
Maximum lbs/day	4.44	60.17	25.24	0.09	16.79	1.46	15.33
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	16.00	-	16.00
Off-Road Diesel	12.92	98.58	95.61	-	4.39	4.39	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.05	0.02	0.53	0.00	0.01	0.00	0.01
Maximum lbs/day	12.97	98.60	96.14	0.00	20.40	4.39	16.01

TahoeVista_InitialSitePrep_OperationalB.txt

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Max lbs/day all phases	12.97	98.60	96.14	0.09	20.40	4.39	16.01
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Phase 3 - Building Construction Assumptions: Phase Turned OFF

Start Month/Year for Phase 1: May '07

Phase 1 Duration: 1.3 months

Building Volume Total (cubic feet): 36000

Building Volume Daily (cubic feet): 36000

On-Road Truck Travel (VMT): 2001

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Rubber Tired Loaders	165	0.465	10.5

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jun '07

Phase 2 Duration: 2.7 months

On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
3	Rubber Tired Dozers	352	0.590	8.0
3	Tractor/Loaders/Backhoes	79	0.465	8.0

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AREA SOURCE EMISSION ESTIMATES (Summer Pounds per Day, Unmitigated)

Source	ROG	NOx	CO	S02	PM10
Natural Gas	0.03	0.37	0.16	0	0.00
Hearth - No summer emissions					
Landscaping	0.10	0.00	0.66	0.00	0.00
Consumer Prdcts	2.40	-	-	-	-
Architectural Coatings	0.06	-	-	-	-
TOTALS(lbs/day, unmitigated)	2.58	0.37	0.82	0.00	0.00

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UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	S02	PM10
TAU/Affordable/Employee	4.29	8.04	56.61	0.04	7.47
TOTAL EMISSIONS (lbs/day)	4.29	8.04	56.61	0.04	7.47

Does not include correction for passby trips.

Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2009 Temperature (F): 60 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
TAU/Affordable/Employee	6.25	9.41 trips/dwelling unit	49.00	460.99
Sum of Total Trips				460.99
Total Vehicle Miles Traveled				4,925.28

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent	Type	Non-Catalyst	Catalyst	Diesel
Light Auto	54.90		1.30	98.40	0.30
Light Truck < 3,750 lbs	15.10		2.60	95.40	2.00
Light Truck 3,751- 5,750	16.10		1.20	98.10	0.70
Med Truck 5,751- 8,500	7.30		1.40	95.90	2.70
Lite-Heavy 8,501-10,000	1.10		0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.30		0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00		0.00	20.00	80.00
Heavy-Heavy 33,001-60,000	0.90		0.00	11.10	88.90
Line Haul > 60,000 lbs	0.00		0.00	0.00	100.00
Urban Bus	0.20		0.00	50.00	50.00
Motorcycle	1.60		75.00	25.00	0.00
School Bus	0.10		0.00	0.00	100.00
Motor Home	1.40		7.10	85.70	7.20

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	10.8	7.3	7.5	9.5	7.4	7.4
Rural Trip Length (miles)	16.8	7.1	7.9	14.7	6.6	6.6
Trip Speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	32.9	18.0	49.1			

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Changes made to the default values for Land Use Trip Percentages

The Trip Rate and/or Acreage values for Apartments low rise
have changed from the defaults 6.9/3.06 to 9.408/6.25

Changes made to the default values for Construction

Changes made to the default values for Area

The wood stove percentage changed from 35 to 0.
The wood fireplace percentage changed from 10 to 0.
The natural gas fireplace percentage changed from 55 to 100.
The landscape year changed from 2005 to 2009.
The residential Arch. Coatings ROG emission factor changed from 0.0185 to 0.0013.
The nonresidential Arch. Coatings ROG emission factor changed from 0.0185 to 0.0013.

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2009.

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
8.7\Projects2k2\Tahoe_Vista_Preparation_Operational_B.urb
Project Name: Tahoe Vista-Initial Site Prep. & Operational B
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Tons/Year)

Construction Start Month and Year: May, 2007
Construction Duration: 4
Total Land Use Area to be Developed: 6.25 acres
Maximum Acreage Disturbed Per Day: 1.6 acres
Single Family Units: 0 Multi-Family Units: 49
Retail/Office/Institutional/Industrial Square Footage: 0

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (tons/year)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2007***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.22	-	0.22
Off-Road Diesel	0.03	0.15	0.22	-	0.00	0.00	0.00
On-Road Diesel	0.04	0.71	0.14	0.00	0.02	0.02	0.00
Worker Trips	0.00	0.00	0.01	0.00	0.00	0.00	0.00
Total tons/year	0.07	0.86	0.37	0.00	0.24	0.02	0.22
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.48	-	0.48
Off-Road Diesel	0.38	2.93	2.84	-	0.13	0.13	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.02	0.00	0.00	0.00	0.00
Total tons/year	0.38	2.93	2.86	0.00	0.61	0.13	0.48
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total all phases tons/yr	0.45	3.79	3.23	0.00	0.85	0.15	0.70

Phase 3 - Building Construction Assumptions: Phase Turned OFF

Start Month/Year for Phase 1: May '07
Phase 1 Duration: 1.3 months
Building Volume Total (cubic feet): 36000
Building Volume Daily (cubic feet): 36000
On-Road Truck Travel (VMT): 2001

No.	Type	Horsepower	Load Factor	Hours/Day
1	Rubber Tired Loaders	165	0.465	10.5

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jun '07

Phase 2 Duration: 2.7 months

On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
3	Rubber Tired Dozers	352	0.590	8.0
3	Tractor/Loaders/Backhoes	79	0.465	8.0

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AREA SOURCE EMISSION ESTIMATES (Tons per Year, Unmitigated)

Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.01	0.07	0.03	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00
Landscaping	0.01	0.00	0.06	0.00	0.00
Consumer Prdcts	0.44	-	-	-	-
Architectural Coatings	0.01	-	-	-	-
TOTALS (tpy, unmitigated)	0.46	0.07	0.09	0.00	0.00

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UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
TAU/Affordable/Employee	0.85	1.56	10.95	0.01	1.36
TOTAL EMISSIONS (tons/yr)	0.85	1.56	10.95	0.01	1.36

Does not include correction for passby trips.

Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2009 Season: Annual

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
TAU/Affordable/Employee	6.25	9.41 trips/dwelling unit	49.00	460.99

Sum of Total Trips	460.99
Total Vehicle Miles Traveled	4,925.28

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	54.90	1.30	98.40	0.30
Light Truck < 3,750 lbs	15.10	2.60	95.40	2.00
Light Truck 3,751- 5,750	16.10	1.20	98.10	0.70
Med Truck 5,751- 8,500	7.30	1.40	95.90	2.70
Lite-Heavy 8,501- 10,000	1.10	0.00	81.80	18.20

TahoeVista_InitialSitePrep_OperationalB.txt

Lite-Heavy	10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy	14,001-33,000	1.00	0.00	20.00	80.00
Heavy-Heavy	33,001-60,000	0.90	0.00	11.10	88.90
Line Haul > 60,000 lbs		0.00	0.00	0.00	100.00
Urban Bus		0.20	0.00	50.00	50.00
Motorcycle		1.60	75.00	25.00	0.00
School Bus		0.10	0.00	0.00	100.00
Motor Home		1.40	7.10	85.70	7.20

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	10.8	7.3	7.5	9.5	7.4	7.4
Rural Trip Length (miles)	16.8	7.1	7.9	14.7	6.6	6.6
Trip Speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	32.9	18.0	49.1			

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Changes made to the default values for Land Use Trip Percentages

The Trip Rate and/or Acreage values for Apartments low rise have changed from the defaults 6.9/3.06 to 9.408/6.25

Changes made to the default values for Construction

Changes made to the default values for Area

The wood stove percentage changed from 35 to 0.
The wood fireplace percentage changed from 10 to 0.
The natural gas fireplace percentage changed from 55 to 100.
The landscape year changed from 2005 to 2009.
The residential Arch. Coatings ROG emission factor changed from 0.0185 to 0.0013.
The nonresidential Arch. Coatings ROG emission factor changed from 0.0185 to 0.0013.

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2009.

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
8.7\Projects2k2\Tahoe_Vista_Phase1.urb
Project Name: Tahoe Vista-Phase 1
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Summer)

CONSTRUCTION EMISSION ESTIMATES

					PM10	PM10
					TOTAL	EXHAUST
PM10						
*** 2007 ***	ROG	NOx	CO	S02		
DUST						
TOTALS (lbs/day, unmitigated)	5.28	37.95	41.78	0.00	1.62	1.61
0.01						

					PM10	PM10
					TOTAL	EXHAUST
PM10						
*** 2008 ***	ROG	NOx	CO	S02		
DUST						
TOTALS (lbs/day, unmitigated)	12.66	67.51	88.22	0.00	2.44	2.41
0.03						

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
8.7\Projects2k2\Tahoe_Vista_Phase1.urb
Project Name: Tahoe Vista-Phase 1
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Winter)

CONSTRUCTION EMISSION ESTIMATES

					PM10	PM10
					TOTAL	EXHAUST
PM10						
*** 2007 ***	ROG	NOx	CO	S02		
DUST						
TOTALS (lbs/day, unmitigated)	5.28	37.95	41.78	0.00	1.62	1.61
0.01						

					PM10	PM10
					TOTAL	EXHAUST
PM10						
*** 2008 ***	ROG	NOx	CO	S02		
DUST						
TOTALS (lbs/day, unmitigated)	12.66	67.51	88.22	0.00	2.44	2.41
0.03						

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
8.7\Projects2k2\Tahoe_Vista_Phase1.urb
Project Name: Tahoe Vista-Phase 1
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Tons/Year)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2007 ***							
TOTALS (tpy, unmitigated)	0.41	2.93	3.21	0.00	0.12	0.12	0.00

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2008 ***							
TOTALS (tpy, unmitigated)	0.22	1.37	1.67	0.00	0.06	0.06	0.00

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
8.7\Projects2k2\Tahoe_Vista_Phase1.urb
Project Name: Tahoe Vista-Phase 1
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Winter)

Construction Start Month and Year: June, 2007
Construction Duration: 10
Total Land Use Area to be Developed: 2.55 acres
Maximum Acreage Disturbed Per Day: 0.6 acres
Single Family Units: 0 Multi-Family Units: 15
Retail/Office/Institutional/Industrial Square Footage: 0

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2007***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TahoeVista_Phase1A.txt

Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	5.18	37.74	39.43	-	1.60	1.60	0.00
Bldg Const Worker Trips	0.10	0.21	2.35	0.00	0.01	0.00	0.01
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	5.28	37.95	41.78	0.00	1.62	1.61	0.01
Max lbs/day all phases	5.28	37.95	41.78	0.00	1.62	1.61	0.01

*** 2008***

Phase 1 - Demolition Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 2 - Site Grading Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	5.18	36.06	40.55	-	1.45	1.45	0.00
Bldg Const Worker Trips	0.10	0.20	2.32	0.00	0.01	0.00	0.01
Arch Coatings Off-Gas	2.03	-	-	-	-	-	-
Arch Coatings Worker Trips	0.03	0.02	0.39	0.00	0.01	0.00	0.01
Asphalt Off-Gas	0.05	-	-	-	-	-	-
Asphalt Off-Road Diesel	5.25	30.95	44.62	-	0.96	0.96	0.00
Asphalt On-Road Diesel	0.01	0.25	0.05	0.00	0.01	0.01	0.00
Asphalt Worker Trips	0.02	0.01	0.29	0.00	0.01	0.00	0.01
Maximum lbs/day	12.66	67.51	88.22	0.00	2.44	2.41	0.03
Max lbs/day all phases	12.66	67.51	88.22	0.00	2.44	2.41	0.03

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Phase 2 - Site Grading Assumptions: Phase Turned OFF

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Jun '07

Phase 3 Duration: 10 months

Start Month/Year for SubPhase Building: Jun '07

SubPhase Building Duration: 10 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	10.5
1	Other Equipment	190	0.620	10.5
1	Rough Terrain Forklifts	94	0.475	10.5

Start Month/Year for SubPhase Architectural Coatings: Mar '08

SubPhase Architectural Coatings Duration: 1 months

Start Month/Year for SubPhase Asphalt: Mar '08

SubPhase Asphalt Duration: 0.5 months

Acres to be Paved: 0.2

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	10.5
1	Pavers	132	0.590	10.5
1	Rollers	114	0.430	10.5

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Changes made to the default values for Land Use Trip Percentages

The Trip Rate and/or Acreage values for Apartments low rise
have changed from the defaults 6.9/.94 to 0/2.55

Changes made to the default values for Construction

Architectural Coatings: # ROG/ft² (residential) changed from 0.0185 to 0.0013Architectural Coatings: # ROG/ft² (non-res) changed from 0.0185 to 0.0013

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
8.7\Projects2k2\Tahoe_Vista_Phase1.urb
Project Name: Tahoe Vista-Phase 1
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Summer)

Construction Start Month and Year: June, 2007

Construction Duration: 10

Total Land Use Area to be Developed: 2.55 acres

Maximum Acreage Disturbed Per Day: 0.6 acres

Single Family Units: 0 Multi-Family Units: 15

Retail/Office/Institutional/Industrial Square Footage: 0

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	S02	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2007***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 3 - Building Construction

Tahoe Vista_Phase1A.txt

Bldg Const Off-Road Diesel	5.18	37.74	39.43	-	1.60	1.60	0.00
Bldg Const Worker Trips	0.10	0.21	2.35	0.00	0.01	0.00	0.01
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	5.28	37.95	41.78	0.00	1.62	1.61	0.01
Max lbs/day all phases	5.28	37.95	41.78	0.00	1.62	1.61	0.01

*** 2008***

Phase 1 - Demolition Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 2 - Site Grading Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	5.18	36.06	40.55	-	1.45	1.45	0.00
Bldg Const Worker Trips	0.10	0.20	2.32	0.00	0.01	0.00	0.01
Arch Coatings Off-Gas	2.03	-	-	-	-	-	-
Arch Coatings Worker Trips	0.03	0.02	0.39	0.00	0.01	0.00	0.01
Asphalt Off-Gas	0.05	-	-	-	-	-	-
Asphalt Off-Road Diesel	5.25	30.95	44.62	-	0.96	0.96	0.00
Asphalt On-Road Diesel	0.01	0.25	0.05	0.00	0.01	0.01	0.00
Asphalt Worker Trips	0.02	0.01	0.29	0.00	0.01	0.00	0.01
Maximum lbs/day	12.66	67.51	88.22	0.00	2.44	2.41	0.03
Max lbs/day all phases	12.66	67.51	88.22	0.00	2.44	2.41	0.03

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Phase 2 - Site Grading Assumptions: Phase Turned OFF

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Jun '07

Phase 3 Duration: 10 months

Start Month/Year for SubPhase Building: Jun '07

SubPhase Building Duration: 10 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	10.5
1	Other Equipment	190	0.620	10.5
1	Rough Terrain Forklifts	94	0.475	10.5

Start Month/Year for SubPhase Architectural Coatings: Mar '08

SubPhase Architectural Coatings Duration: 1 months

Start Month/Year for SubPhase Asphalt: Mar '08

SubPhase Asphalt Duration: 0.5 months

Acres to be Paved: 0.2

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
-----	------	------------	-------------	-----------

1	Graders	174	0.575	10.5
1	Pavers	132	0.590	10.5
1	Rollers	114	0.430	10.5

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Changes made to the default values for Land Use Trip Percentages

The Trip Rate and/or Acreage values for Apartments low rise
have changed from the defaults 6.9/.94 to 0/2.55

Changes made to the default values for Construction

Architectural Coatings: # ROG/ft2 (residential) changed from 0.0185 to 0.0013
Architectural Coatings: # ROG/ft2 (non-res) changed from 0.0185 to 0.0013

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
8.7\Projects2k2\Tahoe_Vista_Phase1.urb
Project Name: Tahoe Vista-Phase 1
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT (Tons/Year)

Construction Start Month and Year: June, 2007
Construction Duration: 10
Total Land Use Area to be Developed: 2.55 acres
Maximum Acreage Disturbed Per Day: 0.6 acres
Single Family Units: 0 Multi-Family Units: 15
Retail/Office/Institutional/Industrial Square Footage: 0

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (tons/year)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2007***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	0.40	2.91	3.04	-	0.12	0.12	0.00
Bldg Const Worker Trips	0.01	0.02	0.17	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TahoeVista_Phase1A.txt

Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.41	2.93	3.21	0.00	0.12	0.12	0.00
Total all phases tons/yr	0.41	2.93	3.21	0.00	0.12	0.12	0.00

*** 2008***

Phase 1 - Demolition Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 2 - Site Grading Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	0.17	1.19	1.34	-	0.05	0.05	0.00
Bldg Const Worker Trips	0.00	0.01	0.08	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.02	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.03	0.17	0.25	-	0.01	0.01	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.22	1.37	1.67	0.00	0.06	0.06	0.00
Total all phases tons/yr	0.22	1.37	1.67	0.00	0.06	0.06	0.00

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Phase 2 - Site Grading Assumptions: Phase Turned OFF

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Jun '07

Phase 3 Duration: 10 months

Start Month/Year for SubPhase Building: Jun '07

SubPhase Building Duration: 10 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	10.5
1	Other Equipment	190	0.620	10.5
1	Rough Terrain Forklifts	94	0.475	10.5

Start Month/Year for SubPhase Architectural Coatings: Mar '08

SubPhase Architectural Coatings Duration: 1 months

Start Month/Year for SubPhase Asphalt: Mar '08

SubPhase Asphalt Duration: 0.5 months

Acres to be Paved: 0.2

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	10.5
1	Pavers	132	0.590	10.5
1	Rollers	114	0.430	10.5

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Changes made to the default values for Land Use Trip Percentages

The Trip Rate and/or Acreage values for Apartments low rise
have changed from the defaults 6.9/.94 to 0/2.55

Changes made to the default values for Construction

Architectural Coatings: # ROG/ft² (residential) changed from 0.0185 to 0.0013
Architectural Coatings: # ROG/ft² (non-res) changed from 0.0185 to 0.0013

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
8.7\Projects2k2\Tahoe_Vista_Phase1_B.urb
Project Name: Tahoe Vista-Phase 1B
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Summer)

CONSTRUCTION EMISSION ESTIMATES

					PM10	PM10
					TOTAL	EXHAUST
PM10						
*** 2007 ***	ROG	NOx	CO	S02		
DUST						
TOTALS (lbs/day, unmitigated)	5.28	37.95	41.78	0.00	1.62	1.61
0.01						

					PM10	PM10
					TOTAL	EXHAUST
PM10						
*** 2008 ***	ROG	NOx	CO	S02		
DUST						
TOTALS (lbs/day, unmitigated)	12.66	67.51	88.22	0.00	2.44	2.41
0.03						

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
8.7\Projects2k2\Tahoe_Vista_Phase1_B.urb
Project Name: Tahoe Vista-Phase 1B
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Winter)

CONSTRUCTION EMISSION ESTIMATES

					PM10	PM10
					TOTAL	EXHAUST
PM10						
*** 2007 ***	ROG	NOx	CO	S02		
DUST						
TOTALS (lbs/day, unmitigated)	5.28	37.95	41.78	0.00	1.62	1.61
0.01						

					PM10	PM10
					TOTAL	EXHAUST
PM10						
*** 2008 ***	ROG	NOx	CO	S02		
DUST						
TOTALS (lbs/day, unmitigated)	12.66	67.51	88.22	0.00	2.44	2.41
0.03						

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
8.7\Projects2k2\Tahoe_Vista_Phase1_B.urb
Project Name: Tahoe Vista-Phase 1B
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Tons/Year)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2007 ***							
TOTALS (tpy, unmitigated)	0.41	2.93	3.21	0.00	0.12	0.12	0.00
*** 2008 ***							
TOTALS (tpy, unmitigated)	0.22	1.37	1.67	0.00	0.06	0.06	0.00

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
8.7\Projects2k2\Tahoe_Vista_Phase1_B.urb
Project Name: Tahoe Vista-Phase 1B
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Winter)

Construction Start Month and Year: June, 2007
Construction Duration: 10
Total Land Use Area to be Developed: 2.5 acres
Maximum Acreage Disturbed Per Day: 0.6 acres
Single Family Units: 0 Multi-Family Units: 15
Retail/Office/Institutional/Industrial Square Footage: 0

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2007***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Tahoe Vista_Phase1B.txt

Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	5.18	37.74	39.43	-	1.60	1.60	0.00
Bldg Const Worker Trips	0.10	0.21	2.35	0.00	0.01	0.00	0.01
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	5.28	37.95	41.78	0.00	1.62	1.61	0.01
Max lbs/day all phases	5.28	37.95	41.78	0.00	1.62	1.61	0.01

*** 2008***

Phase 1 - Demolition Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 2 - Site Grading Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	5.18	36.06	40.55	-	1.45	1.45	0.00
Bldg Const Worker Trips	0.10	0.20	2.32	0.00	0.01	0.00	0.01
Arch Coatings Off-Gas	2.03	-	-	-	-	-	-
Arch Coatings Worker Trips	0.03	0.02	0.39	0.00	0.01	0.00	0.01
Asphalt Off-Gas	0.05	-	-	-	-	-	-
Asphalt Off-Road Diesel	5.25	30.95	44.62	-	0.96	0.96	0.00
Asphalt On-Road Diesel	0.01	0.25	0.05	0.00	0.01	0.01	0.00
Asphalt Worker Trips	0.02	0.01	0.29	0.00	0.01	0.00	0.01
Maximum lbs/day	12.66	67.51	88.22	0.00	2.44	2.41	0.03
Max lbs/day all phases	12.66	67.51	88.22	0.00	2.44	2.41	0.03

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Phase 2 - Site Grading Assumptions: Phase Turned OFF

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Jun '07

Phase 3 Duration: 10 months

Start Month/Year for SubPhase Building: Jun '07

SubPhase Building Duration: 10 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	10.5
1	Other Equipment	190	0.620	10.5
1	Rough Terrain Forklifts	94	0.475	10.5

Start Month/Year for SubPhase Architectural Coatings: Mar '08

SubPhase Architectural Coatings Duration: 1 months

Start Month/Year for SubPhase Asphalt: Mar '08

SubPhase Asphalt Duration: 0.5 months

Acres to be Paved: 0.2

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	10.5
1	Pavers	132	0.590	10.5
1	Rollers	114	0.430	10.5

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Changes made to the default values for Land Use Trip Percentages

The Trip Rate and/or Acreage values for Apartments low rise
have changed from the defaults 6.9/.94 to 0/2.50

Changes made to the default values for Construction

Architectural Coatings: # ROG/ft² (residential) changed from 0.0185 to 0.0013Architectural Coatings: # ROG/ft² (non-res) changed from 0.0185 to 0.0013

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
8.7\Projects2k2\Tahoe_Vista_Phase1_B.urb
Project Name: Tahoe Vista-Phase 1B
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Summer)

Construction Start Month and Year: June, 2007
Construction Duration: 10
Total Land Use Area to be Developed: 2.5 acres
Maximum Acreage Disturbed Per Day: 0.6 acres
Single Family Units: 0 Multi-Family Units: 15
Retail/Office/Institutional/Industrial Square Footage: 0

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	S02	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2007***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 3 - Building Construction

Tahoe Vista_Phase1B.txt

Bldg Const Off-Road Diesel	5.18	37.74	39.43	-	1.60	1.60	0.00
Bldg Const Worker Trips	0.10	0.21	2.35	0.00	0.01	0.00	0.01
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	5.28	37.95	41.78	0.00	1.62	1.61	0.01
Max lbs/day all phases	5.28	37.95	41.78	0.00	1.62	1.61	0.01

*** 2008***

Phase 1 - Demolition Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 2 - Site Grading Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	5.18	36.06	40.55	-	1.45	1.45	0.00
Bldg Const Worker Trips	0.10	0.20	2.32	0.00	0.01	0.00	0.01
Arch Coatings Off-Gas	2.03	-	-	-	-	-	-
Arch Coatings Worker Trips	0.03	0.02	0.39	0.00	0.01	0.00	0.01
Asphalt Off-Gas	0.05	-	-	-	-	-	-
Asphalt Off-Road Diesel	5.25	30.95	44.62	-	0.96	0.96	0.00
Asphalt On-Road Diesel	0.01	0.25	0.05	0.00	0.01	0.01	0.00
Asphalt Worker Trips	0.02	0.01	0.29	0.00	0.01	0.00	0.01
Maximum lbs/day	12.66	67.51	88.22	0.00	2.44	2.41	0.03
Max lbs/day all phases	12.66	67.51	88.22	0.00	2.44	2.41	0.03

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Phase 2 - Site Grading Assumptions: Phase Turned OFF

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Jun '07

Phase 3 Duration: 10 months

Start Month/Year for SubPhase Building: Jun '07

SubPhase Building Duration: 10 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	10.5
1	Other Equipment	190	0.620	10.5
1	Rough Terrain Forklifts	94	0.475	10.5

Start Month/Year for SubPhase Architectural Coatings: Mar '08

SubPhase Architectural Coatings Duration: 1 months

Start Month/Year for SubPhase Asphalt: Mar '08

SubPhase Asphalt Duration: 0.5 months

Acres to be Paved: 0.2

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
-----	------	------------	-------------	-----------

1	Graders	174	0.575	10.5
1	Pavers	132	0.590	10.5
1	Rollers	114	0.430	10.5

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Changes made to the default values for Land Use Trip Percentages

The Trip Rate and/or Acreage values for Apartments low rise
have changed from the defaults 6.9/.94 to 0/2.50

Changes made to the default values for Construction

Architectural Coatings: # ROG/ft² (residential) changed from 0.0185 to 0.0013
Architectural Coatings: # ROG/ft² (non-res) changed from 0.0185 to 0.0013

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
8.7\Projects2k2\Tahoe_Vista_Phase1_B.urb
Project Name: Tahoe Vista-Phase 1B
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT (Tons/Year)

Construction Start Month and Year: June, 2007
Construction Duration: 10
Total Land Use Area to be Developed: 2.5 acres
Maximum Acreage Disturbed Per Day: 0.6 acres
Single Family Units: 0 Multi-Family Units: 15
Retail/Office/Institutional/Industrial Square Footage: 0

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (tons/year)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2007***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	0.40	2.91	3.04	-	0.12	0.12	0.00
Bldg Const Worker Trips	0.01	0.02	0.17	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TahoeVista_Phase1B.txt

Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.41	2.93	3.21	0.00	0.12	0.12	0.00
Total all phases tons/yr	0.41	2.93	3.21	0.00	0.12	0.12	0.00

*** 2008***

Phase 1 - Demolition Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 2 - Site Grading Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	0.17	1.19	1.34	-	0.05	0.05	0.00
Bldg Const Worker Trips	0.00	0.01	0.08	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.02	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.03	0.17	0.25	-	0.01	0.01	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.22	1.37	1.67	0.00	0.06	0.06	0.00
Total all phases tons/yr	0.22	1.37	1.67	0.00	0.06	0.06	0.00

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Phase 2 - Site Grading Assumptions: Phase Turned OFF

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Jun '07

Phase 3 Duration: 10 months

Start Month/Year for SubPhase Building: Jun '07

SubPhase Building Duration: 10 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	10.5
1	Other Equipment	190	0.620	10.5
1	Rough Terrain Forklifts	94	0.475	10.5

Start Month/Year for SubPhase Architectural Coatings: Mar '08

SubPhase Architectural Coatings Duration: 1 months

Start Month/Year for SubPhase Asphalt: Mar '08

SubPhase Asphalt Duration: 0.5 months

Acres to be Paved: 0.2

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	10.5
1	Pavers	132	0.590	10.5
1	Rollers	114	0.430	10.5

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Changes made to the default values for Land Use Trip Percentages

The Trip Rate and/or Acreage values for Apartments low rise
have changed from the defaults 6.9/.94 to 0/2.50

Changes made to the default values for Construction

Architectural Coatings: # ROG/ft² (residential) changed from 0.0185 to 0.0013
Architectural Coatings: # ROG/ft² (non-res) changed from 0.0185 to 0.0013

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
8.7\Projects2k2\Tahoe_Vista_Phase2.urb
Project Name: Tahoe Vista-Phase 2
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Summer)

CONSTRUCTION EMISSION ESTIMATES

					PM10	PM10
					TOTAL	EXHAUST
PM10						
*** 2008 ***	ROG	NOx	CO	S02		
DUST						
TOTALS (lbs/day, unmitigated)	8.15	56.34	67.23	0.00	2.33	2.31
0.02						

					PM10	PM10
					TOTAL	EXHAUST
PM10						
*** 2009 ***	ROG	NOx	CO	S02		
DUST						
TOTALS (lbs/day, unmitigated)	19.05	85.02	114.69	0.00	3.12	3.07
0.05						

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
8.7\Projects2k2\Tahoe_Vista_Phase2.urb
Project Name: Tahoe Vista-Phase 2
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Winter)

CONSTRUCTION EMISSION ESTIMATES

					PM10	PM10
					TOTAL	EXHAUST
PM10						
*** 2008 ***	ROG	NOx	CO	S02		
DUST						
TOTALS (lbs/day, unmitigated)	8.15	56.34	67.23	0.00	2.33	2.31
0.02						

					PM10	PM10
					TOTAL	EXHAUST
PM10						
*** 2009 ***	ROG	NOx	CO	S02		
DUST						
TOTALS (lbs/day, unmitigated)	19.05	85.02	114.69	0.00	3.12	3.07
0.05						

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
8.7\Projects2k2\Tahoe_Vista_Phase2.urb
Project Name: Tahoe Vista-Phase 2
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Tons/Year)

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2008 ***							
TOTALS (tpy, unmitigated)	0.36	2.48	2.94	0.00	0.10	0.10	0.00

	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2009 ***							
TOTALS (tpy, unmitigated)	0.63	3.71	4.81	0.00	0.14	0.14	0.00

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
8.7\Projects2k2\Tahoe_Vista_Phase2.urb
Project Name: Tahoe Vista-Phase 2
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Winter)

Construction Start Month and Year: September, 2008
Construction Duration: 10
Total Land Use Area to be Developed: 1.5 acres
Maximum Acreage Disturbed Per Day: 0.4 acres
Single Family Units: 0 Multi-Family Units: 40
Retail/Office/Institutional/Industrial Square Footage: 0

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2008***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TahoeVista_Phase2A.txt

Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	7.90	55.84	61.45	-	2.29	2.29	0.00
Bldg Const Worker Trips	0.25	0.50	5.79	0.00	0.03	0.01	0.02
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	8.15	56.34	67.23	0.00	2.33	2.31	0.02
Max lbs/day all phases	8.15	56.34	67.23	0.00	2.33	2.31	0.02

*** 2009***

Phase 1 - Demolition Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 2 - Site Grading Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	7.90	53.23	63.37	-	2.16	2.16	0.00
Bldg Const Worker Trips	0.24	0.50	5.71	0.00	0.03	0.01	0.02
Arch Coatings Off-Gas	5.42	-	-	-	-	-	-
Arch Coatings Worker Trips	0.07	0.04	0.82	0.00	0.02	0.00	0.02
Asphalt Off-Gas	0.12	-	-	-	-	-	-
Asphalt Off-Road Diesel	5.25	30.70	44.62	-	0.89	0.89	0.00
Asphalt On-Road Diesel	0.03	0.55	0.11	0.00	0.01	0.01	0.00
Asphalt Worker Trips	0.02	0.01	0.23	0.00	0.01	0.00	0.01
Maximum lbs/day	19.05	85.02	114.69	0.00	3.12	3.07	0.05
Max lbs/day all phases	19.05	85.02	114.69	0.00	3.12	3.07	0.05

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Phase 2 - Site Grading Assumptions: Phase Turned OFF

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Sep '08

Phase 3 Duration: 10 months

Start Month/Year for SubPhase Building: Sep '08

SubPhase Building Duration: 10 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	10.5
2	Other Equipment	190	0.620	10.5
1	Rough Terrain Forklifts	94	0.475	10.5

Start Month/Year for SubPhase Architectural Coatings: Jun '09

SubPhase Architectural Coatings Duration: 1 months

Start Month/Year for SubPhase Asphalt: Jun '09

SubPhase Asphalt Duration: 0.5 months

Acres to be Paved: 0.5

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	10.5
1	Pavers	132	0.590	10.5
1	Rollers	114	0.430	10.5

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Changes made to the default values for Land Use Trip Percentages

The Trip Rate and/or Acreage values for Apartments low rise
have changed from the defaults 6.9/2.5 to 0/1.5

Changes made to the default values for Construction

Architectural Coatings: # ROG/ft² (residential) changed from 0.0185 to 0.0013Architectural Coatings: # ROG/ft² (non-res) changed from 0.0185 to 0.0013

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
8.7\Projects2k2\Tahoe_Vista_Phase2.urb
Project Name: Tahoe Vista-Phase 2
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Summer)

Construction Start Month and Year: September, 2008

Construction Duration: 10

Total Land Use Area to be Developed: 1.5 acres

Maximum Acreage Disturbed Per Day: 0.4 acres

Single Family Units: 0 Multi-Family Units: 40

Retail/Office/Institutional/Industrial Square Footage: 0

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	S02	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2008***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 3 - Building Construction

Tahoe Vista_Phase2A.txt

Bldg Const Off-Road Diesel	7.90	55.84	61.45	-	2.29	2.29	0.00
Bldg Const Worker Trips	0.25	0.50	5.79	0.00	0.03	0.01	0.02
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	8.15	56.34	67.23	0.00	2.33	2.31	0.02
Max lbs/day all phases	8.15	56.34	67.23	0.00	2.33	2.31	0.02

*** 2009***

Phase 1 - Demolition Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 2 - Site Grading Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	7.90	53.23	63.37	-	2.16	2.16	0.00
Bldg Const Worker Trips	0.24	0.50	5.71	0.00	0.03	0.01	0.02
Arch Coatings Off-Gas	5.42	-	-	-	-	-	-
Arch Coatings Worker Trips	0.07	0.04	0.82	0.00	0.02	0.00	0.02
Asphalt Off-Gas	0.12	-	-	-	-	-	-
Asphalt Off-Road Diesel	5.25	30.70	44.62	-	0.89	0.89	0.00
Asphalt On-Road Diesel	0.03	0.55	0.11	0.00	0.01	0.01	0.00
Asphalt Worker Trips	0.02	0.01	0.23	0.00	0.01	0.00	0.01
Maximum lbs/day	19.05	85.02	114.69	0.00	3.12	3.07	0.05
Max lbs/day all phases	19.05	85.02	114.69	0.00	3.12	3.07	0.05

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Phase 2 - Site Grading Assumptions: Phase Turned OFF

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Sep '08

Phase 3 Duration: 10 months

Start Month/Year for SubPhase Building: Sep '08

SubPhase Building Duration: 10 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	10.5
2	Other Equipment	190	0.620	10.5
1	Rough Terrain Forklifts	94	0.475	10.5

Start Month/Year for SubPhase Architectural Coatings: Jun '09

SubPhase Architectural Coatings Duration: 1 months

Start Month/Year for SubPhase Asphalt: Jun '09

SubPhase Asphalt Duration: 0.5 months

Acres to be Paved: 0.5

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
-----	------	------------	-------------	-----------

1	Graders	174	0.575	10.5
1	Pavers	132	0.590	10.5
1	Rollers	114	0.430	10.5

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Changes made to the default values for Land Use Trip Percentages

The Trip Rate and/or Acreage values for Apartments low rise
have changed from the defaults 6.9/2.5 to 0/1.5

Changes made to the default values for Construction

Architectural Coatings: # ROG/ft2 (residential) changed from 0.0185 to 0.0013
Architectural Coatings: # ROG/ft2 (non-res) changed from 0.0185 to 0.0013

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
8.7\Projects2k2\Tahoe_Vista_Phase2.urb
Project Name: Tahoe Vista-Phase 2
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT (Tons/Year)

Construction Start Month and Year: September, 2008
Construction Duration: 10
Total Land Use Area to be Developed: 1.5 acres
Maximum Acreage Disturbed Per Day: 0.4 acres
Single Family Units: 0 Multi-Family Units: 40
Retail/Office/Institutional/Industrial Square Footage: 0

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (tons/year)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2008***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	0.35	2.46	2.70	-	0.10	0.10	0.00
Bldg Const Worker Trips	0.01	0.02	0.24	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TahoeVista_Phase2A.txt

Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.36	2.48	2.94	0.00	0.10	0.10	0.00
Total all phases tons/yr	0.36	2.48	2.94	0.00	0.10	0.10	0.00

*** 2009***

Phase 1 - Demolition Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 2 - Site Grading Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	0.52	3.51	4.18	-	0.14	0.14	0.00
Bldg Const Worker Trips	0.02	0.03	0.37	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.06	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.01	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.03	0.17	0.25	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.63	3.71	4.81	0.00	0.14	0.14	0.00
Total all phases tons/yr	0.63	3.71	4.81	0.00	0.14	0.14	0.00

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Phase 2 - Site Grading Assumptions: Phase Turned OFF

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Sep '08

Phase 3 Duration: 10 months

Start Month/Year for SubPhase Building: Sep '08

SubPhase Building Duration: 10 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	10.5
2	Other Equipment	190	0.620	10.5
1	Rough Terrain Forklifts	94	0.475	10.5

Start Month/Year for SubPhase Architectural Coatings: Jun '09

SubPhase Architectural Coatings Duration: 1 months

Start Month/Year for SubPhase Asphalt: Jun '09

SubPhase Asphalt Duration: 0.5 months

Acres to be Paved: 0.5

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	10.5
1	Pavers	132	0.590	10.5
1	Rollers	114	0.430	10.5

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Changes made to the default values for Land Use Trip Percentages

The Trip Rate and/or Acreage values for Apartments low rise
have changed from the defaults 6.9/2.5 to 0/1.5

Changes made to the default values for Construction

Architectural Coatings: # ROG/ft² (residential) changed from 0.0185 to 0.0013
Architectural Coatings: # ROG/ft² (non-res) changed from 0.0185 to 0.0013

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URBEMIS 2002 For Windows 8. 7. 0

File Name: C:\Program Files\URBEMIS 2002 Version
8. 7\Projects2k2\Tahoe_Vista_Phase2B. urb
Project Name: Tahoe Vista-Phase 2B
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2. 2

SUMMARY REPORT
(Pounds/Day - Summer)

CONSTRUCTION EMISSION ESTIMATES

					PM10	PM10
					TOTAL	EXHAUST
PM10						
*** 2008 ***	ROG	NOx	CO	S02		
DUST						
TOTALS (lbs/day, unmitigated)	5. 39	36. 49	45. 47	0. 00	1. 48	1. 46
0. 02						

					PM10	PM10
					TOTAL	EXHAUST
PM10						
*** 2009 ***	ROG	NOx	CO	S02		
DUST						
TOTALS (lbs/day, unmitigated)	15. 44	66. 09	92. 05	0. 00	2. 33	2. 28
0. 05						

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URBEMIS 2002 For Windows 8. 7. 0

File Name: C:\Program Files\URBEMIS 2002 Version
8. 7\Projects2k2\Tahoe_Vista_Phase2B. urb
Project Name: Tahoe Vista-Phase 2B
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2. 2

SUMMARY REPORT
(Pounds/Day - Winter)

CONSTRUCTION EMISSION ESTIMATES

					PM10	PM10
					TOTAL	EXHAUST
PM10						
*** 2008 ***	ROG	NOx	CO	S02		
DUST						
TOTALS (lbs/day, unmitigated)	5. 39	36. 49	45. 47	0. 00	1. 48	1. 46
0. 02						

					PM10	PM10
					TOTAL	EXHAUST
PM10						
*** 2009 ***	ROG	NOx	CO	S02		
DUST						
TOTALS (lbs/day, unmitigated)	15. 44	66. 09	92. 05	0. 00	2. 33	2. 28
0. 05						

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
8.7\Projects2k2\Tahoe_Vista_Phase2B.urb
Project Name: Tahoe Vista-Phase 2B
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Tons/Year)

CONSTRUCTION EMISSION ESTIMATES

*** 2008 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (tpy, unmitigated)	0.24	1.61	1.99	0.00	0.06	0.06	0.00

*** 2009 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (tpy, unmitigated)	0.43	2.48	3.33	0.00	0.09	0.09	0.00

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
8.7\Projects2k2\Tahoe_Vista_Phase2B.urb
Project Name: Tahoe Vista-Phase 2B
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Winter)

Construction Start Month and Year: September, 2008
Construction Duration: 10
Total Land Use Area to be Developed: 1.22 acres
Maximum Acreage Disturbed Per Day: 0.3 acres
Single Family Units: 0 Multi-Family Units: 34
Retail/Office/Institutional/Industrial Square Footage: 0

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2008***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Tahoe Vista_Phase2B.txt

Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	5.18	36.06	40.55	-	1.45	1.45	0.00
Bldg Const Worker Trips	0.21	0.43	4.92	0.00	0.03	0.01	0.02
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	5.39	36.49	45.47	0.00	1.48	1.46	0.02
Max lbs/day all phases	5.39	36.49	45.47	0.00	1.48	1.46	0.02

*** 2009***

Phase 1 - Demolition Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 2 - Site Grading Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	5.18	34.49	41.71	-	1.37	1.37	0.00
Bldg Const Worker Trips	0.20	0.42	4.85	0.00	0.03	0.01	0.02
Arch Coatings Off-Gas	4.61	-	-	-	-	-	-
Arch Coatings Worker Trips	0.06	0.03	0.69	0.00	0.02	0.00	0.02
Asphalt Off-Gas	0.10	-	-	-	-	-	-
Asphalt Off-Road Diesel	5.25	30.70	44.62	-	0.89	0.89	0.00
Asphalt On-Road Diesel	0.02	0.44	0.09	0.00	0.01	0.01	0.00
Asphalt Worker Trips	0.02	0.01	0.23	0.00	0.01	0.00	0.01
Maximum lbs/day	15.44	66.09	92.05	0.00	2.33	2.28	0.05
Max lbs/day all phases	15.44	66.09	92.05	0.00	2.33	2.28	0.05

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Phase 2 - Site Grading Assumptions: Phase Turned OFF

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Sep '08

Phase 3 Duration: 10 months

Start Month/Year for SubPhase Building: Sep '08

SubPhase Building Duration: 10 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	10.5
1	Other Equipment	190	0.620	10.5
1	Rough Terrain Forklifts	94	0.475	10.5

Start Month/Year for SubPhase Architectural Coatings: Jun '09

SubPhase Architectural Coatings Duration: 1 months

Start Month/Year for SubPhase Asphalt: Jun '09

SubPhase Asphalt Duration: 0.5 months

Acres to be Paved: 0.4

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	10.5
1	Pavers	132	0.590	10.5
1	Rollers	114	0.430	10.5

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Changes made to the default values for Land Use Trip Percentages

The Trip Rate and/or Acreage values for Apartments low rise
have changed from the defaults 6.9/2.13 to 0/1.22

Changes made to the default values for Construction

Architectural Coatings: # ROG/ft² (residential) changed from 0.0185 to 0.0013Architectural Coatings: # ROG/ft² (non-res) changed from 0.0185 to 0.0013

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
8.7\Projects2k2\Tahoe_Vista_Phase2B.urb
Project Name: Tahoe Vista-Phase 2B
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Summer)

Construction Start Month and Year: September, 2008

Construction Duration: 10

Total Land Use Area to be Developed: 1.22 acres

Maximum Acreage Disturbed Per Day: 0.3 acres

Single Family Units: 0 Multi-Family Units: 34

Retail/Office/Institutional/Industrial Square Footage: 0

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2008***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 3 - Building Construction

TahoeVista_Phase2B.txt

Bldg Const Off-Road Diesel	5.18	36.06	40.55	-	1.45	1.45	0.00
Bldg Const Worker Trips	0.21	0.43	4.92	0.00	0.03	0.01	0.02
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	5.39	36.49	45.47	0.00	1.48	1.46	0.02
Max lbs/day all phases	5.39	36.49	45.47	0.00	1.48	1.46	0.02

*** 2009***

Phase 1 - Demolition Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 2 - Site Grading Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	5.18	34.49	41.71	-	1.37	1.37	0.00
Bldg Const Worker Trips	0.20	0.42	4.85	0.00	0.03	0.01	0.02
Arch Coatings Off-Gas	4.61	-	-	-	-	-	-
Arch Coatings Worker Trips	0.06	0.03	0.69	0.00	0.02	0.00	0.02
Asphalt Off-Gas	0.10	-	-	-	-	-	-
Asphalt Off-Road Diesel	5.25	30.70	44.62	-	0.89	0.89	0.00
Asphalt On-Road Diesel	0.02	0.44	0.09	0.00	0.01	0.01	0.00
Asphalt Worker Trips	0.02	0.01	0.23	0.00	0.01	0.00	0.01
Maximum lbs/day	15.44	66.09	92.05	0.00	2.33	2.28	0.05
Max lbs/day all phases	15.44	66.09	92.05	0.00	2.33	2.28	0.05

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Phase 2 - Site Grading Assumptions: Phase Turned OFF

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Sep '08

Phase 3 Duration: 10 months

Start Month/Year for SubPhase Building: Sep '08

SubPhase Building Duration: 10 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	10.5
1	Other Equipment	190	0.620	10.5
1	Rough Terrain Forklifts	94	0.475	10.5

Start Month/Year for SubPhase Architectural Coatings: Jun '09

SubPhase Architectural Coatings Duration: 1 months

Start Month/Year for SubPhase Asphalt: Jun '09

SubPhase Asphalt Duration: 0.5 months

Acres to be Paved: 0.4

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
-----	------	------------	-------------	-----------

1	Graders	174	0.575	10.5
1	Pavers	132	0.590	10.5
1	Rollers	114	0.430	10.5

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Changes made to the default values for Land Use Trip Percentages

The Trip Rate and/or Acreage values for Apartments low rise
have changed from the defaults 6.9/2.13 to 0/1.22

Changes made to the default values for Construction

Architectural Coatings: # ROG/ft2 (residential) changed from 0.0185 to 0.0013
Architectural Coatings: # ROG/ft2 (non-res) changed from 0.0185 to 0.0013

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URBEMIS 2002 For Windows 8.7.0

File Name: C:\Program Files\URBEMIS 2002 Version
8.7\Projects2k2\Tahoe_Vista_Phase2B.urb
Project Name: Tahoe Vista-Phase 2B
Project Location: Mountain Counties and Rural Counties
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT (Tons/Year)

Construction Start Month and Year: September, 2008
Construction Duration: 10
Total Land Use Area to be Developed: 1.22 acres
Maximum Acreage Disturbed Per Day: 0.3 acres
Single Family Units: 0 Multi-Family Units: 34
Retail/Office/Institutional/Industrial Square Footage: 0

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (tons/year)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2008***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	0.23	1.59	1.78	-	0.06	0.06	0.00
Bldg Const Worker Trips	0.01	0.02	0.21	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TahoeVista_Phase2B.txt

Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.24	1.61	1.99	0.00	0.06	0.06	0.00
Total all phases tons/yr	0.24	1.61	1.99	0.00	0.06	0.06	0.00

*** 2009***

Phase 1 - Demolition Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 2 - Site Grading Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	0.34	2.28	2.75	-	0.09	0.09	0.00
Bldg Const Worker Trips	0.01	0.03	0.32	0.00	0.00	0.00	0.00
Arch Coatings Off-Gas	0.05	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.01	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.03	0.17	0.25	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.43	2.48	3.33	0.00	0.09	0.09	0.00
Total all phases tons/yr	0.43	2.48	3.33	0.00	0.09	0.09	0.00

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Phase 2 - Site Grading Assumptions: Phase Turned OFF

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Sep '08

Phase 3 Duration: 10 months

Start Month/Year for SubPhase Building: Sep '08

SubPhase Building Duration: 10 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Concrete/Industrial saws	84	0.730	10.5
1	Other Equipment	190	0.620	10.5
1	Rough Terrain Forklifts	94	0.475	10.5

Start Month/Year for SubPhase Architectural Coatings: Jun '09

SubPhase Architectural Coatings Duration: 1 months

Start Month/Year for SubPhase Asphalt: Jun '09

SubPhase Asphalt Duration: 0.5 months

Acres to be Paved: 0.4

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Graders	174	0.575	10.5
1	Pavers	132	0.590	10.5
1	Rollers	114	0.430	10.5

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Changes made to the default values for Land Use Trip Percentages

The Trip Rate and/or Acreage values for Apartments low rise
have changed from the defaults 6.9/2.13 to 0/1.22

Changes made to the default values for Construction

Architectural Coatings: # ROG/ft² (residential) changed from 0.0185 to 0.0013
Architectural Coatings: # ROG/ft² (non-res) changed from 0.0185 to 0.0013